

Mapping between required and elective Computer Science courses and the Student Outcomes of the BS Computer Science program:

Computer Science Courses	1. Software Development	2. Data Structures	3. Algorithms	4. Programming Languages	5. Mathematics	6. Operating Systems	7. Computer Architecture	8. Computer Science Theory	9. Advanced Computer Science	10. Communication	11. Teamwork	12. Liberal Arts	13. Sciences	14. Social and Ethical Issues
CS 415-6: Introduction to Computer Science I & II	X	X	X	X										
CS 501: Professional Ethics and Communication in Technology-related Fields										X				X
CS 515: Data Structures	X	X	X	X				X						
CS 520: Assembly Language Programming & Machine Organization	X			X			X							
CS 619: Introduction to Object-Oriented Design & Development	X			X					X		X			
CS 620: Operating System Fundamentals	X	X	X	X		X	X	X	X					
CS 659: Introduction to the Theory of Computation					X			X						
CS 671: Programming Language Concepts & Features	X	X	X	X										
CS 712: Compiler Design	X	X	X	X				X	X	X				
CS 720: Operating System Programming	X	X				X	X	X	X			X		
CS 721: Operating System Kernel Design	X	X				X	X		X					
CS 723: Performance Evaluation of Computer Systems	X			X	X			X	X					
CS 725: Computer Networks	X	X	X	X		X	X		X	X			X	X
CS 730: Introduction to Artificial Intelligence		X	X		X			X	X	X			X	
CS 735: Introduction to Parallel and Distributed Programming	X	X	X	X					X					
CS 745: Formal Specification and Verification of Software Systems	X		X	X	X			X	X					
CS 758: Algorithms	X	X	X		X			X						
CS 760: Introduction to Human-Computer Interaction	X			X		X			X	X		X		X
CS 767: Interactive Data Visualization	X							X	X	X			X	
CS 770: Computer Graphics	X	X	X						X					
CS 771: Web Programming Paradigms	X			X					X					
CS 775: Database Systems	X	X	X	X	X			X	X					
CS 791-2: Senior Project I & II	X								X	X	X			

Mapping between other required courses and the Student Outcomes of the BS Computer Science program:

Other Required Courses	1. Software Development	2. Data Structures	3. Algorithms	4. Programming Languages	5. Mathematics	6. Operating Systems	7. Computer Architecture	8. Computer Science Theory	9. Advanced Computer Science	10. Communication	11. Teamwork	12. Liberal Arts	13. Sciences	14. Social and Ethical Issues
ECE 543: Introduction to Digital Systems							X							
ECE 562: Computer Organization							X							
MATH 425: Calculus I					X									
MATH 426: Calculus II					X									
MATH 531: Mathematical Proof					X									
1 Statistics course					X									
4 Laboratory Science courses													X	
ENGL 502: Technical Writing										X		X		